

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-49946-2

Client Project/Site: CBS Compton

For:

CBS Corporation

20 Stanwix Street

Pittsburgh, Pennsylvania 15222-1384

Attn: Mr. Leo M. Brausch



Authorized for release by:

5/1/2015 2:06:44 PM

Nathan Pietras, Project Manager II

(330)966-8296

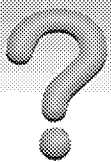
nathan.pietras@testamericainc.com

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
$\alpha$	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Canton

## Case Narrative

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

Job ID: 240-49946-2

Laboratory: TestAmerica Canton

### Narrative

#### CASE NARRATIVE

Client: CBS Corporation

Project: CBS Compton

Report Number: 240-49946-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### RECEIPT

The samples were received on 04/29/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.7 C.

#### POLYCHLORINATED BIPHENYLS (PCBS)

Sample TP-LIQ-02 (240-49946-4) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 04/29/2015 and analyzed on 05/01/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Method(s) 8082: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TP-LIQ-02MS (240-49946-4MS). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

Job ID: 240-49946-2 (Continued)

Laboratory: TestAmerica Canton (Continued)

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## Method Summary

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

## Sample Summary

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-49946-4	TP-LIQ-02	Waste	04/24/15 18:20	04/29/15 09:45

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## Detection Summary

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

Client Sample ID: TP-LIQ-02

Lab Sample ID: 240-49946-4

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

Client Sample ID: TP-LIQ-02

Lab Sample ID: 240-49946-4

Date Collected: 04/24/15 18:20

Matrix: Waste

Date Received: 04/29/15 09:45

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		950	180	ug/Kg		04/29/15 15:32	05/01/15 10:03	1
Aroclor-1221	ND		950	210	ug/Kg		04/29/15 15:32	05/01/15 10:03	1
Aroclor-1232	ND		950	160	ug/Kg		04/29/15 15:32	05/01/15 10:03	1
Aroclor-1242	ND		950	280	ug/Kg		04/29/15 15:32	05/01/15 10:03	1
Aroclor-1248	ND		950	190	ug/Kg		04/29/15 15:32	05/01/15 10:03	1
Aroclor-1254	ND		950	110	ug/Kg		04/29/15 15:32	05/01/15 10:03	1
Aroclor-1260	ND		950	120	ug/Kg		04/29/15 15:32	05/01/15 10:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	144		29 - 173				04/29/15 15:32	05/01/15 10:03	1
DCB Decachlorobiphenyl	159		13 - 185				04/29/15 15:32	05/01/15 10:03	1

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## Surrogate Summary

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Waste

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (29-173)	DCB2 (13-185)
240-49946-4	TP-LIQ-02	144	159
240-49946-4 MS	TP-LIQ-02	127	243 X
240-49946-4 MSD	TP-LIQ-02	138	165
LCS 240-178567/5-A	Lab Control Sample	104	87
MB 240-178567/4-A	Method Blank	100	84

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

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# QC Sample Results

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-178567/4-A

Matrix: Waste

Analysis Batch: 178801

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 178567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1000	190	ug/Kg		04/29/15 15:32	05/01/15 10:51	1
Aroclor-1221	ND		1000	220	ug/Kg		04/29/15 15:32	05/01/15 10:51	1
Aroclor-1232	ND		1000	170	ug/Kg		04/29/15 15:32	05/01/15 10:51	1
Aroclor-1242	ND		1000	290	ug/Kg		04/29/15 15:32	05/01/15 10:51	1
Aroclor-1248	ND		1000	200	ug/Kg		04/29/15 15:32	05/01/15 10:51	1
Aroclor-1254	ND		1000	120	ug/Kg		04/29/15 15:32	05/01/15 10:51	1
Aroclor-1260	ND		1000	130	ug/Kg		04/29/15 15:32	05/01/15 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		29 - 173	04/29/15 15:32	05/01/15 10:51	1
DCB Decachlorobiphenyl	84		13 - 185	04/29/15 15:32	05/01/15 10:51	1

Lab Sample ID: LCS 240-178567/5-A

Matrix: Waste

Analysis Batch: 178801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	10000	8590		ug/Kg		86	66 - 149
Aroclor-1260	10000	7640		ug/Kg		76	50 - 155

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	104		29 - 173
DCB Decachlorobiphenyl	87		13 - 185

Lab Sample ID: 240-49946-4 MS

Matrix: Waste

Analysis Batch: 178801

Client Sample ID: TP-LIQ-02

Prep Type: Total/NA

Prep Batch: 178567

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	127		29 - 173
DCB Decachlorobiphenyl	243	X	13 - 185

Lab Sample ID: 240-49946-4 MSD

Matrix: Waste

Analysis Batch: 178801

Client Sample ID: TP-LIQ-02

Prep Type: Total/NA

Prep Batch: 178567

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	138		29 - 173
DCB Decachlorobiphenyl	165		13 - 185

TestAmerica Canton

## QC Association Summary

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

### GC Semi VOA

#### Prep Batch: 178567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49946-4	TP-LIQ-02	Total/NA	Waste	3580A	
240-49946-4 MS	TP-LIQ-02	Total/NA	Waste	3580A	
240-49946-4 MSD	TP-LIQ-02	Total/NA	Waste	3580A	
LCS 240-178567/5-A	Lab Control Sample	Total/NA	Waste	3580A	
MB 240-178567/4-A	Method Blank	Total/NA	Waste	3580A	

#### Analysis Batch: 178801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49946-4	TP-LIQ-02	Total/NA	Waste	8082	178567
240-49946-4 MS	TP-LIQ-02	Total/NA	Waste	8082	178567
240-49946-4 MSD	TP-LIQ-02	Total/NA	Waste	8082	178567
LCS 240-178567/5-A	Lab Control Sample	Total/NA	Waste	8082	178567
MB 240-178567/4-A	Method Blank	Total/NA	Waste	8082	178567

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TestAmerica Job ID: 240-49946-2

Lab Sample ID: 240-49946-4

Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3580A			178567	04/29/15 15:32	CS	TAL CAN
Total/NA	Analysis	8082		1	178801	05/01/15 10:03	HMB	TAL CAN

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Certification Summary

Client: CBS Corporation  
Project/Site: CBS Compton

TestAmerica Job ID: 240-49946-2

### Laboratory: TestAmerica Canton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8082	3580A	Waste	Aroclor-1016
8082	3580A	Waste	Aroclor-1221
8082	3580A	Waste	Aroclor-1232
8082	3580A	Waste	Aroclor-1242
8082	3580A	Waste	Aroclor-1248
8082	3580A	Waste	Aroclor-1254
8082	3580A	Waste	Aroclor-1260

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

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TestAmerica Laboratories, Inc.

## CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-49946 Chain of Custody

4,2/C4,7

WSP CHAIN-OF-CUSTODY RECORD										Page 1 of 2	
Project Name & Location		WSP Office Address		Project No.		WSP Contact Name		Requested Analysis		No	
CBS Compton		Pittsburg, PA		41949		Dave Rykaczewski		80824 PCBs		000286	
Sampler's Name		WSP Contact E-mail		WSP Contact Phone		Matrix		Preservative		Requested TAT	
Waneta Wong		@wspgroup.com		(571) 231-6417		B		80824 PCBs		Standard, except inure noted	
Susan Ferguson		Collection Date		Collection Time		No. of Containers		Method of Shipment		Requested Deliverable	
		Start		Stop				Courier		<input type="checkbox"/> LEVEL II <input type="checkbox"/> ERIMS EDD <input type="checkbox"/> LEVEL III <input type="checkbox"/> GISKEY EDD <input checked="" type="checkbox"/> LEVEL IV <input type="checkbox"/> EQUIS EDD	
Sample ID	Compl/Grab	Collection Date	Collection Time	Matrix	No. of Containers	Method of Shipment	Preservative	Requested TAT	Requested Deliverable	Sample Comments	
CC-E160-N70		4/24/15	2044	B	1	X				24 hr. TAT. oily liquid <del>3 DAY TAT</del>	
CC-E160-N30		4/24/15	2033	B	1	X				3 Day TAT, all wipe samples contain hexane	
CC-E160-N10		4/24/15	2111	B	1	X				3 Day TAT	
TP-LIQ-02		4/24/15	1820	D	1	X				3 Day TAT	
CC-E160-N210		4/24/15	2322	B	1	X				3 Day TAT	
CC-E160-N150		4/24/15	2333	B	1	X				3 Day TAT	
CC-E160-N190		4/24/15	2348	B	1	X				3 Day TAT	
WP-52		4/27/15	2359	W	1	X				3 Day TAT	
WP-53		4/28/15	0004	W	1	X				3 Day TAT	
WP-54		4/28/15	0015	W	1	X				3 Day TAT	
WP-55		4/28/15	0024	W	1	X				3 Day TAT	
WP-56		4/28/15	0031	W	1	X				3 Day TAT	
WP-57		4/28/15	0039	W	1	X				3 Day TAT	
WP-58		4/28/15	0041	W	1	X				3 Day TAT	
WP-59		4/28/15	0049	W	1	X				3 Day TAT	
Relinquished By (Signature)	Date	Received By (Signature)	Date	Time	Laboratory Name	Laboratory Location	Laboratory Contact				
SJ K	4/28/15	1353	4/28/15	1353	Test America	N. Canton	Nate Pietras				
Relinquished By (Signature)	Date	Received By (Signature)	Date	Time	Method of Shipment	Airbill No.	Shipping Date	No. of Coolers			
	4/28/15	1450			Courier		4/28/15	1			
Sample Condition (Laboratory Use Only)		Temp in °C		Received on Ice		Sealed Cooler		Sample Intact		Additional Comments	
				✓		✓		✓		4/28/15 9:45	

\*Use start and stop time/date for composite and air samples. Include single start time and date for all other samples.

Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk Bi = Biota O = Other (detail in comments)

Preservation: I = Ice H = HCl N = HNO<sub>3</sub> S = H<sub>2</sub>SO<sub>4</sub> NO = NaOH O = Other (detail in comments)

Rec'd @ RWNE 04/28/15, 14:50.  
3.0/2.2" 12-71. NA

ATC/CS 4/28/15 ASGT/NAI



WSP CHAIN-OF-CUSTODY RECORD										Page 2 of 2	
WSP Office Address		Project No.		WSP Contact Name		Requested Analysis		No		Requested TAT	
Pittsburgh, PA		41949		Dave Rykaczewski				000297		except where noted	
Sampler's Name		Sampler's Signature		WSP Contact Email						Requested Deliverable	
Sarah Ferguson		[Signature]		@wspgroup.com						<input type="checkbox"/> LEVEL II <input type="checkbox"/> ERIMS EDD <input type="checkbox"/> LEVEL III <input type="checkbox"/> GISKEY EDD <input checked="" type="checkbox"/> LEVEL IV <input type="checkbox"/> EQUIS EDD	
Sample ID		Comp/Grab		Collection Date		Collection Time		Matrix		Preservative	
				Start		Stop					
WP-60				04/28/15		0055		W		N/A	
WP-61				04/28/15		0102		W		X	
WP-62				04/28/15		0116		W		X	
EB-042815-01				04/28/15		1329		Ag		X	
Relinquished By (Signature)		Date		Received By (Signature)		Date		Laboratory Name		Laboratory Location	
[Signature]		04/28/15		[Signature]		4/28/15 1353		Test America		N. Canton	
Relinquished By (Signature)		Date		Received By (Signature)		Date		Method of Shipment		Shipping Date	
								courier		04/28/15	
Sample Condition (Laboratory Use Only)		Temp in °C		Received on Ice		Sealed Cooler		Sample Intact		Additional Comments	
				✓		✓		✓		4245 946	
*Use start and stop time/date for composite and air samples. Include single start time and date for all other samples. Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk Bi = Biota O = Other (detail in comments) Preservation: I = Ice H = HCl N = HNO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub> NO = NaOH O = Other (detail in comments)											

